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## Chokes for Data and Signal Lines

**Series/Type: B82790C2N3**

The following products presented in this data sheet are being withdrawn.

Ordering Code	Substitute Product	Date of Withdrawal	Deadline Last Orders	Last Shipments
B82790C2475N340	B82792C2475N365	2002-07-05	2002-12-31	2003-03-31
B82790C2474N315	B82792C2474N315	2002-07-05	2002-12-31	2003-03-31
B82790C2105N340	B82792C2105N365	2002-07-05	2002-12-31	2003-03-31

For further information please contact your nearest EPCOS sales office, which will also support you in selecting a suitable substitute. The addresses of our worldwide sales network are presented at [www.epcos.com/sales](http://www.epcos.com/sales).





## Chokes for Data and Signal Lines

B82790-C2\*\*\*-N3

### Quad Chokes

**SMD**

**Rated voltage 42 Vac/80 Vdc**  
**Rated current 200 to 500 mA**  
**Rated inductance 0,47 to 4,7 mH**



### Construction

- Current-compensated ring core quad choke with ferrite core
- Bifilar winding

### Features

- Case flame-retardant as per UL 94 V-0
- Suitable for reflow soldering

### Applications

- Suppression of asymmetrical interference coupled in on lines, whereas data signals up to some MHz can pass unaffectedly
- Use e.g. in telecom applications and RF equipment

### Terminals

- Tinned

### Marking

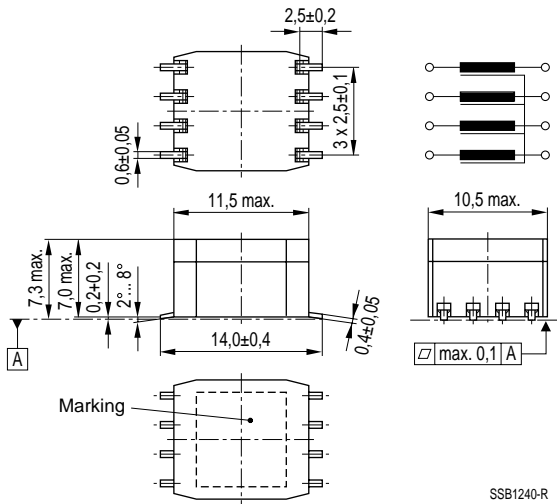
Manufacturer, ordering code,  
date of manufacture (month, year)

### Delivery mode

Blister tape, reel packing

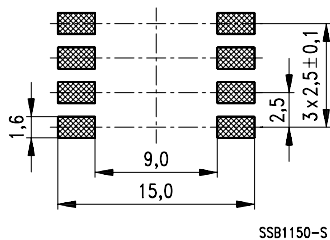
For details on taping, packing and packing units [see page 302](#)

## Dimensional drawing



SSB1240-R

## Layout recommendation



SSB1150-S



## Chokes for Data and Signal Lines

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### Quad Chokes



#### General technical data

Rated voltage $V_R$	42 Vac (50/60 Hz) 80 Vdc
Rated current $I_R$	Referred to 50 Hz and 60 °C ambient temperature
Rated inductance $L_R$	Measured with HP 4275A at $L \leq 1$ mH = 100 kHz, 10 mV $L > 1$ mH = 10 kHz, 10 mV (specified per winding)
Inductance tolerance	– 30/+ 50 %
Inductance decrease $\Delta L/L_0$	< 10 % at dc magnetic bias with $I_R$
Stray inductance $L_S$	Measured at $L \leq 1$ mH = 100 kHz, 10 mV $L > 1$ mH = 10 kHz, 10 mV
DC resistance $R_{typ}$	Typical values, measured at 20 °C ambient temperature
Solderability	(215 ± 3) °C, (3 ± 0,3) s wetting of soldering area ≥ 95 % in accordance with IEC 60068-2-58
Climatic category	40/125/56 (– 40 °C/+ 125 °C/56 days damp heat test) in accordance with IEC 60068-1
Weight	Approx. 2 g

#### Characteristics and ordering codes

$L_R$ mH	$L_{S, max}$ nH	$I_R$ mA	$R_{typ}$ $\Omega$	$V_T$ Vdc, 2 s	Ordering code
0,47	200	500	0,25	750	B82790-C2474-N315
1,0	250	500	0,25	750	B82790-C2105-N340
4,7	400	200	0,80	750	B82790-C2475-N340



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B82790-C2\*\*\*-N3

### Quad Chokes

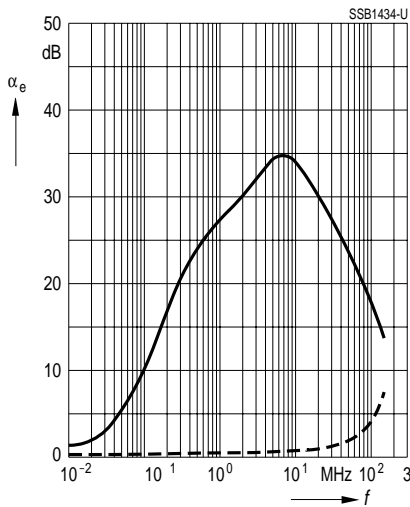
SMD

Insertion loss  $\alpha_e$  (typical values at  $Z = 50 \Omega$ )

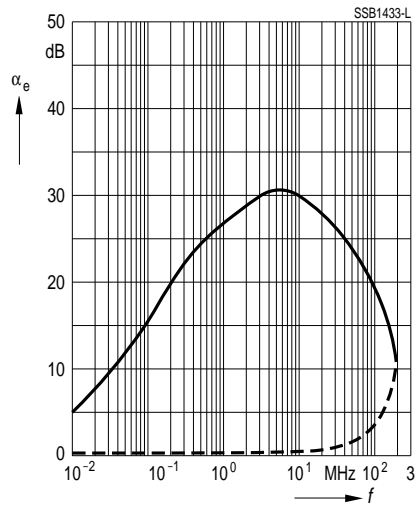
———— asymmetrical, all branches in parallel (common mode)

- - - - - symmetrical (differential mode)

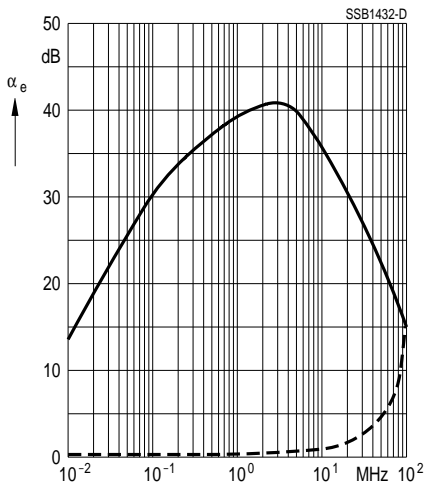
B82790-C2474-N315



B82790-C2105-N340



B82790-C2475-N340





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